

Abstract:

With a synthesis furnace having a furnace chamber surrounded by a circumferential furnace wall, in which a plurality of burners disposed essentially in one plane, with burner exit direction directed downward, and a plurality of reaction tubes disposed essentially vertically and parallel to one another are disposed, whereby the reaction tubes are heated from the outside, by means of the firing burners, the heat distribution and the entire heat transfer are supposed to be improved in as simple a manner as possible, in terms of design and control technology.

This is achieved in that at least the outer burners (5) disposed in the region of the furnace wall (2) have a burner exit direction (R) that is inclined relative to the vertical, leading away from the center of the furnace.

Drawing to be published with this: Fig. 1.